~~TOP SECRET~~

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PHOTOGRAPHIC
INTERPRETATION
REPORT

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

NEWLY IDENTIFIED ANTENNAS AT KLIMOVSK RADCOM RECEIVER STATION KRUG SUPPORT

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OCTOBER 1971

COPY NO 120

3 PAGES

PIR-045/71

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

INSTALLATION OR ACTIVITY NAME		COUNTRY
Klimovsk RADCOM Rcvr Sta Krug Spt		UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	
NA	55-22-20N 037-29-00E	
MAP REFERENCE		
USATC Series 200, scale 1:200,000		
	NEGATION DATE (If required)	
	NA	
REQUIREMENT	NPIC PROJECT	
NA	143321NR	

1. A new type of vertical cage dipole antenna array and five fishbone antennas of a unique type have been identified at the Klimovsk RADCOM Receiver Station Krug Support, 18 nautical miles south-southwest of Moscow (Figure 1). The cage dipole antenna array will probably be used for receiving communications from western Europe and will probably operate in the lower part of the high-frequency range.

2. The antenna array contains two parallel rows of six supporting towers each (Figure 2). The western row contains ten vertical cage dipoles, and the eastern row appears to function as a backscreen.

4. A buried cable extends from the antenna array toward a T-shaped control building. Just before the cable reaches the control building, it branches into two arms. One arm enters the control building and the other extends to the Klimovsk RADCOM Transmitter Station Krug Support , which is just southwest of the receiver station and contains two spherical curtain arrays with movable feed towers.

5. The five unique fishbone antennas are to the south and west of the control building (see Figure 1). The unique feature is the presence of two rows of probable vertical dipoles suspended beneath the horizontal array of each antenna. These vertical dipoles apparently provide a polarization diversity capability.

6. the Klimovsk RADCOM receiver station. Although the supporting towers for the cage dipole array could be observed under construction between January and September 1965, the vertical cage dipole elements were not identifiable The fishbone antennas were constructed during approximately the same period, but details of these antennas could not be observed until this mission.

7. The receiver station is associated with the Klimovsk DF Facility Krug at 55-23-10N 037-28-15E.

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